CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/WMM/Gradation/2014-15 09.05.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 1,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Railway Thayappa, Hemanna Layout in Ward No.06, Hegdenagara Village Limits, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/10/2014-15 Dated: 07.05.2014

Date of Testing : 09.05.2014

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): **25900**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	915	915	3.5	96.5	95-100
22.4	5585	6500	25.1	74.9	60-80
11.2	5995	12495	48.2	51.8	40-60
4.75	4020	16515	63.8	36.2	25-40
2.36	3900	20415	78.8	21.2	15-30
0.600	2595	23010	88.8	11.2	8-22
0.075	2605	25615	98.9	1.1	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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Job No.: CTCE/BBMP/W.No.06/KRIDL/SDBC/Bitumen/2014-15 16.05.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP,
AGENCY	**Technical Manager - 1,** KRIDL, Bangalore.
NAME OF THE WORK	Improvements to roads and drains at Railway Thayappa, Hemanna Layout in Ward No.06, Hegdenagara Village Limits, BBMP, Bangalore.
REFERENCE	AEE/BTP/(WO)/10/2014-15 Dated: 07.05.2014
SAMPLE I/D	roads and drains in Ward No.06,
DATE OF TESTING	16.05.2014

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	475
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	25.00
7. Bitumen content in %	5.20	5.00
8. Average	**5.10**	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	38.42	8.11	8.11	91.89	90-100
4.75	262.3	55.34	63.44	36.56	35-51
2.36	56.78	11.98	75.42	24.58	24-39
1.18	41.85	8.83	84.25	15.75	15-30
0.3	26.85	5.66	89.92	10.08	9-19
0.075	27.12	5.72	95.64	4.36	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	26.75	5.35	5.35	94.65	90-100
4.75	244.3	48.86	54.21	45.79	35-51
2.36	92.5	18.50	72.71	27.29	24-39
1.18	53.87	10.77	83.48	16.52	15-30
0.3	33.46	6.69	90.18	9.82	9-19
0.075	24.78	4.96	95.13	4.87	3-8

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